GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Panchayat Raj & Rural Development Department – Drones technology –Quality monitoring, mapping and assessment using custom built Drones technology for Panchayat Raj Roads for a length of 1000 Km in 1st phase on pilot base – Entrustment of the work to the M/s Curl Analytics, Euphonious Innovations Private Ltd, Bangalore on nomination basis –Administrative Sanction – Accorded - Orders - Issued.

PANCHAYAT RAJ & RURAL DEVELOPMENT (PROGS.II) DEPARTMENT

G.O.RT.No. 81 Dated: 29-01-2019
Read:-

From the E-in-C., PR., Lr. No. AEE3/ DEE1/ Roads monitoring using Drones/ 2018, Dt.14.11.2018.

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O R D E R:

In reference read above the Engineer-in-Chief, Panchayat Raj, Andhra Pradesh, Vijayawada has informed that the M/s Curl Analytics, Euphonious Innovations Private Ltd, Bangalore has expressed their willingness to do Roads quality monitoring, mapping and assessment using custom built Drones technology with LIDAR, Camera and GPS sensors to accurately determine the quality of the roads and also to ascertain the extent of pothole damages to road surface etc. They also assured on integrating the solution into Real Time governance (RTG) for bringing in transparency and efficiency in road survey process.

2. Accordingly, the M/s Curl Analytics, Euphonious Innovations Private Ltd has submitted proposal for using Drones technology for taking up of surveying of Panchayat Raj Roads are as follows:

Sl No	Survey particulars	Distance to cover (KM)	Cost per KM Rs in lakh	Total cost Rs in lakh
1	Phase I	1,000 Km	0.15	150.00
		One time Software and integration cost		25.00
		Phase-I Total		**175.00**
2	Phase II	5,000 Km	0.10	500.00
3	Phase III	24,000 Km	0.075	1800.00
	(Phase I,II,III for 8 months)	**30,000 Km**		**2475.00**
4	Phase IV and above	30,000 Km	0.03	900.00

3. As the Road quality monitoring using Drone technology with LIDAR, Camera and GPS sensors is a new technology and being used 1st time, it may be used for 1000 km on pilot basis. Therefore, The Engineer-in-Chief, Panchayat Raj, Andhra Pradesh, Vijayawada has requested to accord administrative sanction for the Job work "Panchayat Raj Roads quality monitoring, mapping and assessment using custom built Drones technology with LIDAR, Camera and GPS sensors to accurately determine the quality of the roads and to ascertain the extent of pothole damages to road surface" for a length of 1000 Km in 1st phase with an amount of Rs.175.00 lakhs under MRR grant and also requested to accord permission for identification of roads for carrying out the Drone survey in Ananthapur, Chittoor, Krishna, west Godavari and Visakhapatnam districts in the phase-I.

4. Government, after careful examination of the proposal, hereby permit to entrust the work to the M/s Curl Analytics, Euphonious Innovations Private Ltd, Bangalore on nomination basis and, also to permit the Engineer-in-Chief, Panchayat Raj for identification of roads for carrying out the Drone survey in Ananthapur, Chittoor, Krishna, West Godavari and Visakhapatnam districts in the 1st phase on pilot basis. Government also accord administrative sanction for an amount of Rs.1,75,00,000/- (Rupees One Crore and Seventy Five Lakhs Only) for the Job work "Panchayat Raj Roads quality monitoring, mapping and assessment using custom built Drones technology with LIDAR, Camera and GPS sensors to accurately

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determine the quality of the roads and to ascertain the extent of pothole damages to road surface" for a length of 1000 Km in 1st phase on pilot basis under Maintenance of Rural Road grant, under the Head of Account as mentioned below, as per applicability, subject to the general conditions/norms stipulated by the Government from time to time:

Head of Account under MRR Grant

M.J.H 3054 - Roads & Bridges
M.H (04) – District & Other Roads
G.H (196) - Assistance to Zilla Parishads
S.H (12) - Assistance to Panchayat Raj Institutions for Maintenance of Rural Roads
270 - Minor works
272 - Maintenance

5. The orders issued in para (4) above are subject to the condition that the Engineer-in-Chief, Panchayat Raj shall submit detailed reports on the pilot project in two stages i.e., one on completion of 500km and second on completion of 1000km lengths, analysing the usefulness of the technology in terms of its implementability, cost effectiveness, integration with MIS, GIS etc., by comparing with traditional method, Municipal Administration and Urban Development Department method etc.,

6. The Engineer-in-Chief, Panchayat Raj Engineering Department, Andhra Pradesh, Vijayawada shall take further necessary action in the matter accordingly.

7. A Copy this Order is available on the internet and can be accessed at www.ap.gov.in/goir.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

Dr.K.S.JAWAHAR REDDY
PRINCIPAL SECRETATY TO GOVERNMENT

To
The Engineer-in-Chief, Panchayat Raj, Andhra Pradesh, Vijayawada.
The Director, Treasuries and Accounts, AP, Vijayawada.
Copy to:
The Accountant General, A.P. Hyderabad.
The OSD to Min (PR, RD,ITE&C)
The PS to Prl. Secy (PR&RD)
Sc/Sf.

// FORWARDED:: BY ORDER //

SECTION OFFICER